ELSEVIER

Agricultural Water Management 56 (2002) 241–246

Agricultural water management

www.elsevier.com/locate/agwat

Cumulative Author Index, Volumes 52–56

Abu-Awwad, A.M., Influence of different water quantities and qualities on lemon trees and soil salt distribution at the Jordan Valley, (52) (2001) 53

Aggelides, S., *see* Valiantzas, J.D., (52) (2001) 17

Al-Jamal, M.S., Sammis, T.W., Mexal, J.G., Picchioni, G.A. and Zachritz, W.H., A growth-irrigation scheduling model for wastewater use in forest production, (56) (2002) 57

Al-Karablieh, E.K., *see* Doppler, W., (55) (2002) 171

Al-Rumikhani, Y.A., Effect of crop sequence, soil sample location and depth on soil water holding capacity under center pivot irrigation, (55) (2002) 93

Alvarez, S., *see* Montesinos, P., (52) (2001) 1

Asadi, M.E., Clemente, R.S., Gupta, A.D., Loof, R. and Hansen, G.K., Impacts of fertigation via sprinkler irrigation on nitrate leaching and corn yield in an acid–sulphate soil in Thailand, (52) (2002) 197

Asghar, M.N., Prathapar, S.A. and Shafique, M.S., Extracting relatively-fresh groundwater from aquifers underlain by salty groundwater, (52) (2002) 119

Aydin, M., *see* Li Yang, S., (56) (2002) 131

Babalola, O., *see* Ogban, P.I., (52) (2002) 215

Barrett-Lennard, E.G., Restoration of saline land through revegetation, (53) (2002) 213

Bartle, G.A., *see* Hatton, T.J., (53) (2002) 57

Bartle, G.A., *see* Hodgson, G.A., (53) (2002) 39

Bartle, G.A., *see* Silberstein, R.P., (53) (2002) 227

Bassil, E.S. and Kaffka, S.R., Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. I. Consumptive water use, (54) (2002) 67

Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. II. Crop response to salinity, (54) (2002) 81

Bathgate, A. and Pannell, D.J., Economics of deep-rooted perennials in western Australia, (53) (2002) 117

Bee, G.A. and Laslett, G., Development of a rainfed lucerne-based farming system in the Mediterranean climatic region of southwestern Australia, (53) (2002) 111

Bhattacharya, A.K., *see* Singh, M., (52) (2002) 249

Bhuiyan, S.I., *see* Tabbal, D.F., (56) (2002) 93

Bilgel, L., *see* Cetin, O., (54) (2002) 1

Bland, W.L., *see* Sauer, T.J., (55) (2002) 71

Boonstra, J., *see* Kamra, S.K., (56) (2002) 169

Bouarfa, S., *see* Chabot, R., (54) (2002) 17

Bouma, J., *see* Minh, L.Q., (56) (2002) 179

Bouman, B.A.M., *see* Tabbal, D.F., (56) (2002) 93

Burke, J.J., *see* Wanjura, D.F., (55) (2002) 217

Cai, H., *see* Kang, S., (55) (2002) 203

Camacho, E., *see* Montesinos, P., (52) (2001) 1

Cetin, O. and Bilgel, L., Effects of different irrigation methods on shedding and yield of cotton, (54) (2002) 1

Chabot, R., Bouarfa, S., Zimmer, D., Chaumont, C. and Duprez, C., Sugarcane transpiration with shallow water-table: sap flow measurements and modelling, (54) (2002) 17

Chaumont, C., *see* Chabot, R., (54) (2002) 17

Chen, C., Roseberg, R.J. and Selker, J.S., Using microsprinkler irrigation to reduce leaching in a shrink/swell clay soil, (54) (2002) 159

Chen, J.-H., Kan, C.-E., Tan, C.-H. and Shih, S.-F., Use of spectral information for wetland evapotranspiration assessment, (55) (2002) 239

Clemente, R.S., *see* Asadi, M.E., (52) (2002) 197

Cocks, P.S., *see* Latta, R.A., (53) (2002) 99

Cohen, M., *see* Girona, J., (54) (2002) 107

Cohen, S., *see* Li, F., (55) (2002) 1

Dadhwal, V.K., *see* Ray, S.S., (56) (2002) 81

Daghari, H., *see* Ould Mohamed El-Hafedh, A.V., (52) (2001) 33

Díaz-Espejo, A., *see* Palomo, M.J., (55) (2002) 15

de Faria, R.T., *see* Heinemann, A.B., (52) (2002) 177

de Juan, J.A., *see* Fabeiro, C., (54) (2002) 93

PII: S0378-3774(02)00063-X

Deans, J.D., *see* Ong, C.K., (53) (2002) 171
Dodds, G.T., *see* Helwig, T.G., (56) (2002) 153
Dodds, G.T., *see* Qureshi, S.A., (54) (2002) 37
Doppler, W., Salman, A.Z., Al-Karablieh, E.K. and Wolff, H.-P., The impact of water price strategies on the allocation of irrigation water: the case of the Jordan Valley, (55) (2002) 171
Drury, C.F., *see* Tan, C.S., (54) (2002) 173
Dunin, F.X., Integrating agroforestry and perennial pastures to mitigate water logging and secondary salinity, (53) (2002) 259
Dunin, F.X., *see* Ward, P.R., (53) (2002) 83
Dunin, F.X., *see* White, D.A., (53) (2002) 133
Duprez, C., *see* Chabot, R., (54) (2002) 17

Elliott, T., *see* Leib, B.G., (55) (2002) 105
Ellis, T.W., *see* Stirzaker, R.J., (53) (2002) 187
Erez, A., *see* Li, F., (55) (2002) 1

Fabeiro, C., Martín de Santa Olalla, F. and de Juan, J.A., Production of muskmelon (*Cucumis melo* L.) under controlled deficit irrigation in a semi-arid climate, (54) (2002) 93
Fereres, E., *see* Girona, J., (54) (2002) 107
Fereres, E., *see* Gómez, J.A., (55) (2002) 53
Fernández, J.E., *see* Palomo, M.J., (55) (2002) 15
Fernández, J.E., Slawinski, C., Moreno, F., Walczak, R.T. and Vanclooster, M., Simulating the fate of water in a soil–crop system of a semi-arid Mediterranean area with the WAVE 2.1 and the EURO-ACCESS-II models, (56) (2002) 113

Galbraith, J.H., *see* White, D.A., (53) (2002) 133
Garcia, R.M., *see* Rice, R.W., (56) (2002) 17
Gaynor, J.D., *see* Tan, C.S., (54) (2002) 173
Giardini, L., *see* Morari, F., (55) (2002) 183
Giráldez, J.V., *see* Gómez, J.A., (55) (2002) 53
Girón, I.F., *see* Palomo, M.J., (55) (2002) 15
Girona, J., Mata, M., Fereres, E., Goldhamer, D.A. and Cohen, M., Evapotranspiration and soil water dynamics of peach trees under water deficits, (54) (2002) 107
Goldhamer, D.A., *see* Girona, J., (54) (2002) 107
Gómez, J.A., Vanderlinden, K., Giráldez, J.V. and Fereres, E., Rainfall concentration under olive trees, (55) (2002) 53
Gong, J.-D., *see* Li, X.-Y., (54) (2002) 243
Gowing, J.W., *see* Young, M.D.B., (55) (2002) 121
Grismer, M.E., Regional cotton lint yield, ET_c and water value in Arizona and California, (54) (2002) 227
Gu, B., *see* Kang, S., (55) (2002) 203
Gupta, A.D., *see* Asadi, M.E., (52) (2002) 197
Gupta, A.D., *see* Ines, A.V.M., (54) (2002) 205

Ham, J.M., *see* Sauer, T.J., (55) (2002) 71
Hamdy, A., *see* Katerji, N., (55) (2002) 83
Hansen, G.K., *see* Asadi, M.E., (52) (2002) 197
Hatibu, N., *see* Young, M.D.B., (55) (2002) 121
Hattendorf, M., *see* Leib, B.G., (55) (2002) 105
Hatton, T.J., Bartle, G.A., Silberstein, R.P., Salama, R.B., Hodgson, G., Ward, P.R., Lambert, P. and Williamson, D.R., Predicting and controlling water logging and groundwater flow in sloping duplex soils in western Australia, (53) (2002) 57
Hatton, T.J., *see* Hodgson, G.A., (53) (2002) 39
Hatton, T.J., *see* Silberstein, R.P., (53) (2002) 227
Heinemann, A.B., Hoogenboom, G. and de Faria, R.T., Determination of spatial water requirements at county and regional levels using crop models and GIS. An example for the State of Parana, Brazil, (52) (2002) 177
Helwig, T.G., Madramootoo, C.A. and Dodds, G.T., Modelling nitrate losses in drainage water using DRAINMOD 5.0, (56) (2002) 153
Hodgson, G., *see* Hatton, T.J., (53) (2002) 57
Hodgson, G., *see* Silberstein, R.P., (53) (2002) 227
Hodgson, G.A., Bartle, G.A., Silberstein, R.P., Hatton, T.J. and Ward, B.H., Measuring and monitoring the effects of agroforestry and drainage in the 'Ucarro' sub-catchment, (53) (2002) 39
Home, P.G., Panda, R.K. and Kar, S., Effect of method and scheduling of irrigation on water and nitrogen use efficiencies of Okra (*Abelmoschus esculentus*), (55) (2002) 159
Hoogenboom, G., *see* Heinemann, A.B., (52) (2002) 177
Horton, R., *see* Shangguan, Z., (52) (2002) 139
Hu, X., *see* Kang, S., (55) (2002) 203
Hunsaker, D.J., *see* Liu, W.Z., (56) (2002) 143

Ines, A.V.M., Gupta, A.D. and Loof, R., Application of GIS and crop growth models in estimating water productivity, (54) (2002) 205
Izuno, F.T., *see* Rice, R.W., (56) (2002) 17

Jagtap, S.S., *see* Oluwasemire, K.O., (56) (2002) 207

Kaffka, S.R., *see* Bassil, E.S., (54) (2002) 67, 81
Kamra, S.K., Lal, K., Singh, O.P. and Boonstra, J., Effect of pumping on temporal changes in groundwater quality, (56) (2002) 169
Kan, C.-E., *see* Chen, J.-H., (55) (2002) 239
Kang, S., Zhang, L., Liang, Y., Hu, X., Cai, H. and Gu, B., Effects of limited irrigation on yield and water use efficiency of winter wheat in the Loess Plateau of China, (55) (2002) 203

Kar, S., *see* Home, P.G., (55) (2002) 159
Katerji, N., van Hoorn, J.W., Hamdy, A. and Mastrorilli, M., Erratum to "Salt tolerance of crops according to three classification methods and examination of some hypothesis about salt tolerance" [Agric. Water Manage. 47 (2001) 1–8], (55) (2002) 83
Kipkorir, E.C., Raes, D. and Massawe, B., Seasonal water production functions and yield response factors for maize and onion in Perkerra, Kenya, (56) (2002) 229
Kitamura, Y., *see* Li Yang, S., (56) (2002) 131
Kumar, P., Mishra, A., Raghuwanshi, N.S. and Singh, R., Application of unsteady flow hydraulic-model to a large and complex irrigation system, (54) (2002) 49
Kupper, E., Querner, E.P., Morábito, J.A. and Menenti, M., Using the SIMGRO regional hydrological model to evaluate salinity control measures in an irrigation area, (56) (2002) 1

Lal, K., *see* Kamra, S.K., (56) (2002) 169
Lambert, P., *see* Hatton, T.J., (53) (2002) 57
Lambert, P., *see* Silberstein, R.P., (53) (2002) 227
Laslett, G., *see* Bee, G.A., (53) (2002) 111
Latta, R.A., Cocks, P.S. and Matthews, C., Lucerne pastures to sustain agricultural production in southwestern Australia, (53) (2002) 99
Leenhardt, D. and Lemaire, Ph., Estimating the spatial and temporal distribution of sowing dates for regional water management, (55) (2002) 37
Lefroy, E.C., *see* Stirzaker, R.J., (53) (2002) 187
Lei, T., *see* Shangguan, Z., (52) (2002) 139
Leib, B.G., Hattendorf, M., Elliott, T. and Matthews, G., Adoption and adaptation of scientific irrigation scheduling: trends from Washington, USA as of 1998, (55) (2002) 105
Lemaire, Ph., *see* Leenhardt, D., (55) (2002) 37
Li Yang, S., Yano, T., Aydin, M., Kitamura, Y. and Takeuchi, S.-i., Short term effects of saline irrigation on evapotranspiration from lysimeter-grown citrus trees, (56) (2002) 131
Li, F., Cohen, S., Naor, A., Shaozong, K. and Erez, A., Studies of canopy structure and water use of apple trees on three rootstocks, (55) (2002) 1
Li, X.-Y. and Gong, J.-D., Effects of different ridge:furrow ratios and supplemental irrigation on crop production in ridge and furrow rainfall harvesting system with mulches, (54) (2002) 243
Li, Y.S., *see* Liu, W.Z., (56) (2002) 143
Liang, Y., *see* Kang, S., (55) (2002) 203
Liu, W.Z., Hunsaker, D.J., Li, Y.S., Xie, X.Q. and Wall, G.W., Interrelations of yield, evapotranspiration, and water use efficiency from marginal analysis of water production functions, (56) (2002) 143
Loof, R., *see* Asadi, M.E., (52) (2002) 197
Loof, R., *see* Ines, A.V.M., (54) (2002) 205
López-Cortijo, I., *see* Mateos, L., (56) (2002) 193

Ma, J., *see* Shangguan, Z., (52) (2002) 139
Maalej, M., *see* Ould Mohamed El-Hafedh, A.V., (52) (2001) 33
Madramootoo, C.A., *see* Helwig, T.G., (56) (2002) 153
Madramootoo, C.A., *see* Qureshi, S.A., (54) (2002) 37
Mahan, J.R., *see* Wanjura, D.F., (55) (2002) 217
Maheshwari, B.L., *see* Smith, A., (56) (2002) 41
Martín de Santa Olalla, F., *see* Fabeiro, C., (54) (2002) 93
Martínez-Cob, A., *see* Zapata, N., (55) (2002) 141
Massawe, B., *see* Kipkorir, E.C., (56) (2002) 229
Mastrorilli, M., *see* Katerji, N., (55) (2002) 83
Mata, M., *see* Girona, J., (54) (2002) 107
Mateos, L., López-Cortijo, I. and Sagardoy, J.A., SIMIS: the FAO decision support system for irrigation scheme management, (56) (2002) 193
Matthews, C., *see* Latta, R.A., (53) (2002) 99
Matthews, G., *see* Leib, B.G., (55) (2002) 105
McFarlane, D.J. and Williamson, D.R., An overview of water logging and salinity in southwestern Australia as related to the 'Ucarro' experimental catchment, (53) (2002) 5
Menenti, M., *see* Kupper, E., (56) (2002) 1
Menenti, M., *see* Tedeschi, A., (54) (2002) 123
Metin Sezen, S., *see* Yazar, A., (54) (2002) 189
Mexal, J.G., *see* Al-Jamal, M.S., (56) (2002) 57
Micin, S.F., *see* Ward, P.R., (53) (2002) 83
Minh, L.Q., Tuong, T.P., van Mensvoort, M.E.F. and Bouma, J., Aluminum-contaminant transport by surface runoff and bypass flow from an acid sulphate soil, (56) (2002) 179
Mishra, A., *see* Kumar, P., (54) (2002) 49
Montesinos, P., Camacho, E. and Alvarez, S., Seasonal furrow irrigation model with genetic algorithms (OPTIMEC), (52) (2001) 1
Moore Jr., P.A., *see* Sauer, T.J., (55) (2002) 71
Morábito, J.A., *see* Kupper, E., (56) (2002) 1
Morari, F. and Giardini, L., Irrigation automation with heterogeneous vegetation: the case of the Padova botanical garden, (55) (2002) 183
Moreno, F., *see* Fernández, J.E., (56) (2002) 113
Moreno, F., *see* Palomo, M.J., (55) (2002) 15
Mulayta, J., *see* Ong, C.K., (53) (2002) 171

Muñoz-Carpena, R., Ritter, A., Socorro, A.R. and Pérez, N., Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, (52) (2002) 93

Nair, T.V.R., *see* Singh, M., (52) (2002) 249
Nanjappa, H.V., *see* Viswanatha, G.B., (55) (2002) 85
Naor, A., *see* Li, F., (55) (2002) 1
Navalgund, R.R., *see* Ray, S.S., (56) (2002) 81

Ogban, P.I. and Babalola, O., Evaluation of drainage and tillage effect on watertable depth and maize yield in wet inland valleys in southwestern Nigeria, (52) (2002) 215
Oluwasemire, K.O., Stigter, C.J., Owonubi, J.J. and Jagtap, S.S., Seasonal water use and water productivity of millet-based cropping systems in the Nigerian Sudan savanna near Kano, (56) (2002) 207
Ong, C.K., Wilson, J., Deans, J.D., Mulayta, J., Raussen, T. and Wajja-Musukwe, N., Tree–crop interactions: manipulation of water use and root function, (53) (2002) 171
Ould Mohamed El-Hafedh, A.V., Daghari, H. and Maalej, M., Analysis of several discharge rate–spacing–duration combinations in drip irrigation system, (52) (2001) 33
Owonubi, J.J., *see* Oluwasemire, K.O., (56) (2002) 207

Palomo, M.J., Moreno, F., Fernández, J.E., Díaz-Espejo, A. and Girón, I.F., Determining water consumption in olive orchards using the water balance approach, (55) (2002) 15
Panda, R.K., *see* Home, P.G., (55) (2002) 159
Pannell, D.J., *see* Bathgate, A., (53) (2002) 117
Pérez, N., *see* Muñoz-Carpena, R., (52) (2002) 93
Picchioni, G.A., *see* Al-Jamal, M.S., (56) (2002) 57
Poole, M.L., Turner, N.C. and Young, J.M., Sustainable cropping systems for high rainfall areas of southwestern Australia, (53) (2002) 201
Prathapar, S.A., *see* Asghar, M.N., (52) (2002) 119
Prueger, J.H., *see* Sauer, T.J., (55) (2002) 71

Qin, L., *see* Shangguan, Z., (52) (2002) 139
Querner, E.P., *see* Kupper, E., (56) (2002) 1
Qureshi, S.A., Madramootoo, C.A. and Dodds, G.T., Evaluation of irrigation schemes for sugarcane in Sindh, Pakistan, using SWAP93, (54) (2002) 37

Raes, D., *see* Kipkorir, E.C., (56) (2002) 229
Raghuwanshi, N.S., *see* Kumar, P., (54) (2002) 49
Ramachandrappa, B.K., *see* Viswanatha, G.B., (55) (2002) 85
Raussen, T., *see* Ong, C.K., (53) (2002) 171
Ray, S.S., Dadhwal, V.K. and Navalgund, R.R., Performance evaluation of an irrigation command area using remote sensing: a case study of Mahi command, Gujarat, India, (56) (2002) 81
Reggiani, P., *see* Silberstein, R.P., (53) (2002) 227
Reynolds, W.D., *see* Tan, C.S., (54) (2002) 173
Rice, R.W., Izuno, F.T. and Garcia, R.M., Phosphorus load reductions under best management practices for sugarcane cropping systems in the Everglades Agricultural Area, (56) (2002) 17
Ritter, A., *see* Muñoz-Carpena, R., (52) (2002) 93
Roseberg, R.J., *see* Chen, C., (54) (2002) 159
Rundle, B.F., *see* Rundle, P.J., (53) (2002) 31
Rundle, P.J. and Rundle, B.F., A case study of farm-based solutions to water logging and secondary salinity in southwestern Australia, (53) (2002) 31

Sagardoy, J.A., *see* Mateos, L., (56) (2002) 193
Salama, R.B., *see* Hatton, T.J., (53) (2002) 57
Salama, R.B., *see* Silberstein, R.P., (53) (2002) 227
Salman, A.Z., *see* Doppler, W., (55) (2002) 171
Sammis, T.W., *see* Al-Jamal, M.S., (56) (2002) 57
Sassalou, A., *see* Valiantzas, J.D., (52) (2001) 17
Sattar, M.A., *see* Tabbal, D.F., (56) (2002) 93
Sauer, T.J., Moore Jr., P.A., Ham, J.M., Bland, W.L., Prueger, J.H. and West, C.P., Seasonal water balance of an Ozark hillslope, (55) (2002) 71
Selker, J.S., *see* Chen, C., (54) (2002) 159
Sepaskhah, A.R., *see* Zand-Parsa, S.h., (52) (2001) 73
Sesveren, S., *see* Yazar, A., (54) (2002) 189
Shafique, M.S., *see* Asghar, M.N., (52) (2002) 119
Shangguan, Z., Shao, M., Horton, R., Lei, T., Qin, L. and Ma, J., A model for regional optimal allocation of irrigation water resources under deficit irrigation and its applications, (52) (2002) 139
Shao, M., *see* Shangguan, Z., (52) (2002) 139
Shaozong, K., *see* Li, F., (55) (2002) 1
Shih, S.-F., *see* Chen, J.-H., (55) (2002) 239
Sibayan, E.B., *see* Tabbal, D.F., (56) (2002) 93
Silberstein, R.P., Bartle, G.A., Salama, R.B., Hatton, T.J., Reggiani, P., Hodgson, G., Williamson, D.R. and Lambert, P., Mechanisms and control of water logging and groundwater flow in the 'Ucarro' sub-catchment, (53) (2002) 227
Silberstein, R.P., *see* Hatton, T.J., (53) (2002) 57
Silberstein, R.P., *see* Hodgson, G.A., (53) (2002) 39
Singh, A.K., *see* Singh, M., (52) (2002) 249

Singh, M., Bhattacharya, A.K., Nair, T.V.R. and Singh, A.K., Nitrogen loss through subsurface drainage effluent in coastal rice field from India, (52) (2002) 249
Singh, O.P., *see* Kamra, S.K., (56) (2002) 169
Singh, R., *see* Kumar, P., (54) (2002) 49
Slawinski, C., *see* Fernández, J.E., (56) (2002) 113
Smith, A. and Maheshwari, B.L., Options for alternative irrigation water supplies in the Murray–Darling Basin, Australia: a case study of the Shepparton Irrigation Region, (56) (2002) 41
Socorro, A.R., *see* Muñoz-Carpena, R., (52) (2002) 93
Stigter, C.J., *see* Oluwasemire, K.O., (56) (2002) 207
Stirzaker, R.J., Lefroy, E.C. and Ellis, T.W., An index for quantifying the trade-off between drainage and productivity in tree–crop mixtures, (53) (2002) 187

Tabbal, D.F., Bouman, B.A.M., Bhuiyan, S.I., Sibayan, E.B. and Sattar, M.A., On-farm strategies for reducing water input in irrigated rice; case studies in the Philippines, (56) (2002) 93
Takeuchi, S.-i., *see* Li Yang, S., (56) (2002) 131
Tan, C.-H., *see* Chen, J.-H., (55) (2002) 239
Tan, C.S., Drury, C.F., Gaynor, J.D., Welacky, T.W. and Reynolds, W.D., Effect of tillage and water table control on evapotranspiration, surface runoff, tile drainage and soil water content under maize on a clay loam soil, (54) (2002) 173
Tedeschi, A. and Menenti, M., Simulation studies of long-term saline water use: model validation and evaluation of schedules, (54) (2002) 123
Tuong, T.P., *see* Minh, L.Q., (56) (2002) 179
Turner, N.C. and Ward, P.R., The role of agroforestry and perennial pasture in mitigating water logging and secondary salinity: summary, (53) (2002) 271
Turner, N.C., *see* Poole, M.L., (53) (2002) 201
Turner, N.C., *see* White, D.A., (53) (2002) 133

Upchurch, D.R., *see* Wanjura, D.F., (55) (2002) 217

Valiantzas, J.D., Aggelides, S. and Sassalou, A., Furrow infiltration estimation from time to a single advance point, (52) (2001) 17
van Hoorn, J.W., *see* Katerji, N., (55) (2002) 83
van Mensvoort, M.E.F., *see* Minh, L.Q., (56) (2002) 179
Vanclooster, M., *see* Fernández, J.E., (56) (2002) 113
Vanderlinden, K., *see* Gómez, J.A., (55) (2002) 53
Viswanatha, G.B., Ramachandrappa, B.K. and Nanjappa, H.V., Soil–plant water status and yield of sweet corn (*Zea mays* L. cv. Saccharata) as influenced by drip irrigation and planting methods, (55) (2002) 85

Wajja-Musukwe, N., *see* Ong, C.K., (53) (2002) 171
Walczak, R.T., *see* Fernández, J.E., (56) (2002) 113
Wall, G.W., *see* Liu, W.Z., (56) (2002) 143
Wanjura, D.F., Upchurch, D.R., Mahan, J.R. and Burke, J.J., Cotton yield and applied water relationships under drip irrigation, (55) (2002) 217
Ward, B.H., *see* Hodgson, G.A., (53) (2002) 39
Ward, B.H., *see* White, D.A., (53) (2002) 133
Ward, B.H., *see* Woodall, G.S., (53) (2002) 153
Ward, P.R., Dunin, F.X. and Micin, S.F., Water use and root growth by annual and perennial pastures and subsequent crops in a phase rotation, (53) (2002) 83
Ward, P.R., *see* Hatton, T.J., (53) (2002) 57
Welacky, T.W., *see* Tan, C.S., (54) (2002) 173
West, C.P., *see* Sauer, T.J., (55) (2002) 71
White, D.A., Dunin, F.X., Turner, N.C., Ward, B.H. and Galbraith, J.H., Water use by contour-planted belts of trees comprised of four *Eucalyptus* species, (53) (2002) 133
Wichelns, D., Economic analysis of water allocation policies regarding Nile River water in Egypt, (52) (2002) 155
An economic perspective on the potential gains from improvements in irrigation water management, (52) (2002) 233
Williamson, D.R., *see* Hatton, T.J., (53) (2002) 57
Williamson, D.R., *see* McFarlane, D.J., (53) (2002) 5
Williamson, D.R., *see* Silberstein, R.P., (53) (2002) 227
Wilson, J., *see* Ong, C.K., (53) (2002) 171
Wolff, H.-P., *see* Doppler, W., (55) (2002) 171
Woodall, G.S. and Ward, B.H., Soil water relations, crop production and root pruning of a belt of trees, (53) (2002) 153
Wyseure, G.C.L., *see* Young, M.D.B., (55) (2002) 121

Xie, X.Q., *see* Liu, W.Z., (56) (2002) 143

Yano, T., *see* Li Yang, S., (56) (2002) 131

Yazar, A., Metin Sezen, S. and Sesveren, S., LEPA and trickle irrigation of cotton in the Southeast Anatolia Project (GAP) area in Turkey, (54) (2002) 189

Young, J.M., *see* Poole, M.L., (53) (2002) 201

Young, M.D.B., Gowing, J.W., Wyseure, G.C.L. and Hatibu, N., Parched–Thirst: development and validation of a process-based model of rainwater harvesting, (55) (2002) 121

Zachritz, W.H., *see* Al-Jamal, M.S., (56) (2002) 57

Zand-Parsa, S.h. and Sepaskhah, A.R., Optimal applied water and nitrogen for corn, (52) (2001) 73

Zapata, N. and Martínez-Cob, A., Evaluation of the surface renewal method to estimate wheat evapotranspiration, (55) (2002) 141

Zhang, L., *see* Kang, S., (55) (2002) 203

Zimmer, D., *see* Chabot, R., (54) (2002) 17

ELSEVIER

Agricultural Water Management 56 (2002) 247–262

Agricultural water management

www.elsevier.com/locate/agwat

Cumulative Subject Index, Volumes 52–56

Adequacy
Performance evaluation of an irrigation command area using remote sensing: a case study of Mahi command, Gujarat, India, 56 (2002) 81

Agricultural run-off water quality
Phosphorus load reductions under best management practices for sugarcane cropping systems in the Everglades Agricultural Area, 56 (2002) 17

Agroforestry
Tree–crop interactions: manipulation of water use and root function, 53 (2002) 171
Mechanisms and control of water logging and groundwater flow in the 'Ucarro' sub-catchment, 53 (2002) 227
The role of agroforestry and perennial pasture in mitigating water logging and secondary salinity: summary, 53 (2002) 271

Air-filled porosity
Evaluation of drainage and tillage effect on watertable depth and maize yield in wet inland valleys in southwestern Nigeria, 52 (2002) 215

Alfalfa
The role of agroforestry and perennial pasture in mitigating water logging and secondary salinity: summary, 53 (2002) 271

Alley farming system
Measuring and monitoring the effects of agroforestry and drainage in the 'Ucarro' sub-catchment, 53 (2002) 39

Allocation of water resources
A model for regional optimal allocation of irrigation water resources under deficit irrigation and its applications, 52 (2002) 139

Ammonium
Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, 52 (2002) 93

Ammonium-nitrogen
Nitrogen loss through subsurface drainage effluent in coastal rice field from India, 52 (2002) 249

Apple rootstock
Studies of canopy structure and water use of apple trees on three rootstocks, 55 (2002) 1

Aquaculture
A case study of farm-based solutions to water logging and secondary salinity in southwestern Australia, 53 (2002) 31

Automation
Irrigation automation with heterogeneous vegetation: the case of the Padova botanical garden, 55 (2002) 183

Available soil moisture
Soil–plant water status and yield of sweet corn (*Zea mays* L. cv. Saccharata) as influenced by drip irrigation and planting methods, 55 (2002) 85

Bananas
Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, 52 (2002) 93

Biomass
Evaluation of irrigation schemes for sugarcane in Sindh, Pakistan, using SWAP93, 54 (2002) 37

Biomass partitioning
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. II. Crop response to salinity, 54 (2002) 81

PII: S0378-3774(02)00064-1

Botanical garden
Irrigation automation with heterogeneous vegetation: the case of the Padova botanical garden, 55 (2002) 183

Canal hydraulic-model
Application of unsteady flow hydraulic-model to a large and complex irrigation system, 54 (2002) 49

Canola
Water use and root growth by annual and perennial pastures and subsequent crops in a phase rotation, 53 (2002) 83

Canopy structure
Studies of canopy structure and water use of apple trees on three rootstocks, 55 (2002) 1

Canopy temperature
Cotton yield and applied water relationships under drip irrigation, 55 (2002) 217

Capacitance probe
Evapotranspiration and soil water dynamics of peach trees under water deficits, 54 (2002) 107

Catchment modelling
Mechanisms and control of water logging and groundwater flow in the 'Ucarro' sub-catchment, 53 (2002) 227

Catchment scale
Measuring and monitoring the effects of agroforestry and drainage in the 'Ucarro' sub-catchment, 53 (2002) 39

Center pivot
Effect of crop sequence, soil sample location and depth on soil water holding capacity under center pivot irrigation, 55 (2002) 93

Clover
Water use and root growth by annual and perennial pastures and subsequent crops in a phase rotation, 53 (2002) 83

Competition
Soil water relations, crop production and root pruning of a belt of trees, 53 (2002) 153
An index for quantifying the trade-off between drainage and productivity in tree–crop mixtures, 53 (2002) 187

Complementarity
An index for quantifying the trade-off between drainage and productivity in tree–crop mixtures, 53 (2002) 187

Contaminant
Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, 52 (2002) 93

Controlled deficit irrigation
Production of muskmelon (*Cucumis melo* L.) under controlled deficit irrigation in a semi-arid climate, 54 (2002) 93

Controlled drainage/subirrigation
Effect of tillage and water table control on evapotranspiration, surface runoff, tile drainage and soil water content under maize on a clay loam soil, 54 (2002) 173

Corn
Optimal applied water and nitrogen for corn, 52 (2001) 73

Cotton
Effects of different irrigation methods on shedding and yield of cotton, 54 (2002) 1
LEPA and trickle irrigation of cotton in the Southeast Anatolia Project (GAP) area in Turkey, 54 (2002) 189

Crop evapotranspiration
Determining water consumption in olive orchards using the water balance approach, 55 (2002) 15

Crop models
Application of GIS and crop growth models in estimating water productivity, 54 (2002) 205

Crop sequence
Effect of crop sequence, soil sample location and depth on soil water holding capacity under center pivot irrigation, 55 (2002) 93

Crop yield
Regional cotton lint yield, ET_c and water value in Arizona and California, 54 (2002) 227
Effect of method and scheduling of irrigation on water and nitrogen use efficiencies of Okra (*Abelmoschus esculentus*), 55 (2002) 159

Cropping patterns
The impact of water price strategies on the allocation of irrigation water: the case of the Jordan Valley, 55 (2002) 171

Cucumis melo
Production of muskmelon (*Cucumis melo* L.) under controlled deficit irrigation in a semi-arid climate, 54 (2002) 93

Cumulative data distributions
Phosphorus load reductions under best management practices for sugarcane cropping systems in the Everglades Agricultural Area, 56 (2002) 17

Decision support
Determination of spatial water requirements at county and regional levels using crop models and GIS. An example for the State of Parana, Brazil, 52 (2002) 177
SIMIS: the FAO decision support system for irrigation scheme management, 56 (2002) 193

Decomposition and harmonization
A model for regional optimal allocation of irrigation water resources under deficit irrigation and its applications, 52 (2002) 139

Deep drainage
Sustainable cropping systems for high rainfall areas of southwestern Australia, 53 (2002) 201

Deep percolation
Effect of method and scheduling of irrigation on water and nitrogen use efficiencies of Okra (*Abelmoschus esculentus*), 55 (2002) 159

Deficit irrigation
A model for regional optimal allocation of irrigation water resources under deficit irrigation and its applications, 52 (2002) 139
Evapotranspiration and soil water dynamics of peach trees under water deficits, 54 (2002) 107
LEPA and trickle irrigation of cotton in the Southeast Anatolia Project (GAP) area in Turkey, 54 (2002) 189
Seasonal water production functions and yield response factors for maize and onion in Perkerra, Kenya, 56 (2002) 229

Direct seeding
On-farm strategies for reducing water input in irrigated rice; case studies in the Philippines, 56 (2002) 93

Discharge rate
Analysis of several discharge rate–spacing–duration combinations in drip irrigation system, 52 (2001) 33

Diurnal surface temperature variation
Use of spectral information for wetland evapotranspiration assessment, 55 (2002) 239

Drain spacing
Nitrogen loss through subsurface drainage effluent in coastal rice field from India, 52 (2002) 249

Drainage
An overview of water logging and salinity in southwestern Australia as related to the 'Ucarro' experimental catchment, 53 (2002) 5
Measuring and monitoring the effects of agroforestry and drainage in the 'Ucarro' sub-catchment, 53 (2002) 39
Integrating agroforestry and perennial pastures to mitigate water logging and secondary salinity, 53 (2002) 259
Determining water consumption in olive orchards using the water balance approach, 55 (2002) 15
Using the SIMGRO regional hydrological model to evaluate salinity control measures in an irrigation area, 56 (2002) 1
Modelling nitrate losses in drainage water using DRAINMOD 5.0, 56 (2002) 153

Drainage water
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. II. Crop response to salinity, 54 (2002) 81

DRAINMOD
Modelling nitrate losses in drainage water using DRAINMOD 5.0, 56 (2002) 153

Drains
A case study of farm-based solutions to water logging and secondary salinity in southwestern Australia, 53 (2002) 31
The role of agroforestry and perennial pasture in mitigating water logging and secondary salinity: summary, 53 (2002) 271

Drip
Effects of different irrigation methods on shedding and yield of cotton, 54 (2002) 1

Dripper
Analysis of several discharge rate–spacing–duration combinations in drip irrigation system, 52 (2001) 33

Dripper spacing
Analysis of several discharge rate–spacing–duration combinations in drip irrigation system, 52 (2001) 33

Dry bean
Determination of spatial water requirements at county and regional levels using crop models and GIS. An example for the State of Parana, Brazil, 52 (2002) 177

Dryland salinity
The role of agroforestry and perennial pasture in mitigating water logging and secondary salinity: summary, 53 (2002) 271

Duplex soil
An overview of water logging and salinity in southwestern Australia as related to the 'Ucarro' experimental catchment, 53 (2002) 5
Predicting and controlling water logging and groundwater flow in sloping duplex soils in western Australia, 53 (2002) 57
Soil water relations, crop production and root pruning of a belt of trees, 53 (2002) 153
The role of agroforestry and perennial pasture in mitigating water logging and secondary salinity: summary, 53 (2002) 271

Dynamic programming
A model for regional optimal allocation of irrigation water resources under deficit irrigation and its applications, 52 (2002) 139

Economic analysis
Seasonal furrow irrigation model with genetic algorithms (OPTIMEC), 52 (2001) 1
An economic perspective on the potential gains from improvements in irrigation water management, 52 (2002) 233
Sustainable cropping systems for high rainfall areas of southwestern Australia, 53 (2002) 201

Economic benefits
A case study of farm-based solutions to water logging and secondary salinity in southwestern Australia, 53 (2002) 31

Economics
Economic analysis of water allocation policies regarding Nile River water in Egypt, 52 (2002) 155
Economics of deep-rooted perennials in western Australia, 53 (2002) 117

Egypt
Economic analysis of water allocation policies regarding Nile River water in Egypt, 52 (2002) 155

Energy balance
Evaluation of the surface renewal method to estimate wheat evapotranspiration, 55 (2002) 141

Environment
Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, 52 (2002) 93
Modelling nitrate losses in drainage water using DRAINMOD 5.0, 56 (2002) 153

Equity
Performance evaluation of an irrigation command area using remote sensing: a case study of Mahi command, Gujarat, India, 56 (2002) 81

Establishment
Development of a rainfed lucerne-based farming system in the Mediterranean climatic region of southwestern Australia, 53 (2002) 111

Eucalyptus camaldulensis
A growth-irrigation scheduling model for wastewater use in forest production, 56 (2002) 57

Evaporation
Seasonal water balance of an Ozark hillslope, 55 (2002) 71

Evapotranspiration
Water use and root growth by annual and perennial pastures and subsequent crops in a phase rotation, 53 (2002) 83
Integrating agroforestry and perennial pastures to mitigate water logging and secondary salinity, 53 (2002) 259
Effect of tillage and water table control on evapotranspiration, surface runoff, tile drainage and soil water content under maize on a clay loam soil, 54 (2002) 173
Regional cotton lint yield, ET_c and water value in Arizona and California, 54 (2002) 227

Effects of limited irrigation on yield and water use efficiency of winter wheat in the Loess Plateau of China, 55 (2002) 203
Use of spectral information for wetland evapotranspiration assessment, 55 (2002) 239
Using the SIMGRO regional hydrological model to evaluate salinity control measures in an irrigation area, 56 (2002) 1
Short term effects of saline irrigation on evapotranspiration from lysimeter-grown citrus trees, 56 (2002) 131

Everglades Agricultural Area
Phosphorus load reductions under best management practices for sugarcane cropping systems in the Everglades Agricultural Area, 56 (2002) 17

Fertigation
Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, 52 (2002) 93
Impacts of fertigation via sprinkler irrigation on nitrate leaching and corn yield in an acid–sulphate soil in Thailand, 52 (2002) 197

Field capacity
Effect of crop sequence, soil sample location and depth on soil water holding capacity under center pivot irrigation, 55 (2002) 93

FlowTube
Mechanisms and control of water logging and groundwater flow in the 'Ucarro' sub-catchment, 53 (2002) 227

Food security
Economic analysis of water allocation policies regarding Nile River water in Egypt, 52 (2002) 155

Frost risk
A case study of farm-based solutions to water logging and secondary salinity in southwestern Australia, 53 (2002) 31

Furrow
Effects of different irrigation methods on shedding and yield of cotton, 54 (2002) 1

Furrow infiltration estimation
Furrow infiltration estimation from time to a single advance point, 52 (2001) 17

Furrow irrigation
Seasonal furrow irrigation model with genetic algorithms (OPTIMEC), 52 (2001) 1
Simulating the fate of water in a soil–crop system of a semi-arid Mediterranean area with the WAVE 2.1 and the EURO-ACCESS-II models, 56 (2002) 113

GAP
LEPA and trickle irrigation of cotton in the Southeast Anatolia Project (GAP) area in Turkey, 54 (2002) 189

Gap fraction inversion
Studies of canopy structure and water use of apple trees on three rootstocks, 55 (2002) 1

Genetic algorithm
Seasonal furrow irrigation model with genetic algorithms (OPTIMEC), 52 (2001) 1

Geographical information system
Irrigation automation with heterogeneous vegetation: the case of the Padova botanical garden, 55 (2002) 183

GIS
Application of GIS and crop growth models in estimating water productivity, 54 (2002) 205

Grazing management
Development of a rainfed lucerne-based farming system in the Mediterranean climatic region of southwestern Australia, 53 (2002) 111

Green cob
Soil–plant water status and yield of sweet corn (*Zea mays* L. cv. Saccharata) as influenced by drip irrigation and planting methods, 55 (2002) 85

Groundwater
Water use by contour-planted belts of trees comprised of four *Eucalyptus* species, 53 (2002) 133
Mechanisms and control of water logging and groundwater flow in the 'Ucarro' sub-catchment, 53 (2002) 227
Using the SIMGRO regional hydrological model to evaluate salinity control measures in an irrigation area, 56 (2002) 1

Groundwater contamination
Effect of pumping on temporal changes in groundwater quality, 56 (2002) 169

Groundwater use
Restoration of saline land through revegetation, 53 (2002) 213

Halophyte
Restoration of saline land through revegetation, 53 (2002) 213

Harvest index
Effects of limited irrigation on yield and water use efficiency of winter wheat in the Loess Plateau of China, 55 (2002) 203

Heat pulse
Studies of canopy structure and water use of apple trees on three rootstocks, 55 (2002) 1

Heat units
Cotton yield and applied water relationships under drip irrigation, 55 (2002) 217

Heavy metals
Effect of pumping on temporal changes in groundwater quality, 56 (2002) 169

Heterogeneous vegetation
Irrigation automation with heterogeneous vegetation: the case of the Padova botanical garden, 55 (2002) 183

Hydraulic conductivity
Determining water consumption in olive orchards using the water balance approach, 55 (2002) 15

Hydrogeomorphic units
Mechanisms and control of water logging and groundwater flow in the 'Ucarro' sub-catchment, 53 (2002) 227

Hydrologic variability
Phosphorus load reductions under best management practices for sugarcane cropping systems in the Everglades Agricultural Area, 56 (2002) 17

Hydrological models
Using the SIMGRO regional hydrological model to evaluate salinity control measures in an irrigation area, 56 (2002) 1

Hydrology
Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, 52 (2002) 93

Information technology
Adoption and adaptation of scientific irrigation scheduling: trends from Washington, USA as of 1998, 55 (2002) 105

Inland valley bottoms
Evaluation of drainage and tillage effect on watertable depth and maize yield in wet inland valleys in southwestern Nigeria, 52 (2002) 215

Intercropping
Seasonal water use and water productivity of millet-based cropping systems in the Nigerian Sudan savanna near Kano, 56 (2002) 207

Inundation
Restoration of saline land through revegetation, 53 (2002) 213

Irrigation
Determination of spatial water requirements at county and regional levels using crop models and GIS. An example for the State of Parana, Brazil, 52 (2002) 177
Effects of different irrigation methods on shedding and yield of cotton, 54 (2002) 1
Evaluation of irrigation schemes for sugarcane in Sindh, Pakistan, using SWAP93, 54 (2002) 37
Application of unsteady flow hydraulic-model to a large and complex irrigation system, 54 (2002) 49
Application of GIS and crop growth models in estimating water productivity, 54 (2002) 205
Regional cotton lint yield, ET_c and water value in Arizona and California, 54 (2002) 227
Determining water consumption in olive orchards using the water balance approach, 55 (2002) 15
Irrigation automation with heterogeneous vegetation: the case of the Padova botanical garden, 55 (2002) 183
Using the SIMGRO regional hydrological model to evaluate salinity control measures in an irrigation area, 56 (2002) 1

Irrigation command area
Performance evaluation of an irrigation command area using remote sensing: a case study of Mahi command, Gujarat, India, 56 (2002) 81

Irrigation duration
Analysis of several discharge rate–spacing–duration combinations in drip irrigation system, 52 (2001) 33

Irrigation efficiency
An economic perspective on the potential gains from improvements in irrigation water management, 52 (2002) 233

Irrigation management
Adoption and adaptation of scientific irrigation scheduling: trends from Washington, USA as of 1998, 55 (2002) 105
Interrelations of yield, evapotranspiration, and water use efficiency from marginal analysis of water production functions, 56 (2002) 143
SIMIS: the FAO decision support system for irrigation scheme management, 56 (2002) 193

Irrigation method
Effect of method and scheduling of irrigation on water and nitrogen use efficiencies of Okra (*Abelmoschus esculentus*), 55 (2002) 159

Irrigation scheduling
Seasonal furrow irrigation model with genetic algorithms (OPTIMEC), 52 (2001) 1
A model for regional optimal allocation of irrigation water resources under deficit irrigation and its applications, 52 (2002) 139
Adoption and adaptation of scientific irrigation scheduling: trends from Washington, USA as of 1998, 55 (2002) 105
A growth-irrigation scheduling model for wastewater use in forest production, 56 (2002) 57

Irrigation scheme
The impact of water price strategies on the allocation of irrigation water: the case of the Jordan Valley, 55 (2002) 171
SIMIS: the FAO decision support system for irrigation scheme management, 56 (2002) 193

Jordan
Influence of different water quantities and qualities on lemon trees and soil salt distribution at the Jordan Valley, 52 (2001) 53

Jordan Valley
The impact of water price strategies on the allocation of irrigation water: the case of the Jordan Valley, 55 (2002) 171

Leaching
Evaluation of irrigation schemes for sugarcane in Sindh, Pakistan, using SWAP93, 54 (2002) 37
Modelling nitrate losses in drainage water using DRAINMOD 5.0, 56 (2002) 153
Aluminum-contaminant transport by surface runoff and bypass flow from an acid sulphate soil, 56 (2002) 179

Leaching of nitrate
Effect of method and scheduling of irrigation on water and nitrogen use efficiencies of Okra (*Abelmoschus esculentus*), 55 (2002) 159

Leaf area
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. II. Crop response to salinity, 54 (2002) 81

Lemon
Influence of different water quantities and qualities on lemon trees and soil salt distribution at the Jordan Valley, 52 (2001) 53

LEPA
LEPA and trickle irrigation of cotton in the Southeast Anatolia Project (GAP) area in Turkey, 54 (2002) 189

Limited irrigation
Effects of limited irrigation on yield and water use efficiency of winter wheat in the Loess Plateau of China, 55 (2002) 203

Lucerne
Water use and root growth by annual and perennial pastures and subsequent crops in a phase rotation, 53 (2002) 83
Sustainable cropping systems for high rainfall areas of southwestern Australia, 53 (2002) 201
The role of agroforestry and perennial pasture in mitigating water logging and secondary salinity: summary, 53 (2002) 271

Lucerne (*Medicago sativa*)
Economics of deep-rooted perennials in western Australia, 53 (2002) 117

Lysimeter
Sugarcane transpiration with shallow water-table: sap flow measurements and modelling, 54 (2002) 17
Evapotranspiration and soil water dynamics of peach trees under water deficits, 54 (2002) 107
Short term effects of saline irrigation on evapotranspiration from lysimeter-grown citrus trees, 56 (2002) 131

Maize
Determination of spatial water requirements at county and regional levels using crop models and GIS. An example for the State of Parana, Brazil, 52 (2002) 177
Impacts of fertigation via sprinkler irrigation on nitrate leaching and corn yield in an acid–sulphate soil in Thailand, 52 (2002) 197
Interrelations of yield, evapotranspiration, and water use efficiency from marginal analysis of water production functions, 56 (2002) 143
Seasonal water production functions and yield response factors for maize and onion in Perkerra, Kenya, 56 (2002) 229

Management
Measuring and monitoring the effects of agroforestry and drainage in the 'Ucarro' sub-catchment, 53 (2002) 39

Maximum yield
Cotton yield and applied water relationships under drip irrigation, 55 (2002) 217

Mekong river delta
Aluminum-contaminant transport by surface runoff and bypass flow from an acid sulphate soil, 56 (2002) 179

Microsprinkler
Using microsprinkler irrigation to reduce leaching in a shrink/swell clay soil, 54 (2002) 159

Millet
Seasonal water use and water productivity of millet-based cropping systems in the Nigerian Sudan savanna near Kano, 56 (2002) 207

Model
Simulation studies of long-term saline water use: model validation and evaluation of schedules, 54 (2002) 123

Model comparison
Simulating the fate of water in a soil–crop system of a semi-arid Mediterranean area with the WAVE 2.1 and the EURO-ACCESS-II models, 56 (2002) 113

Modelling
Measuring and monitoring the effects of agroforestry and drainage in the 'Ucarro' sub-catchment, 53 (2002) 39
Modelling nitrate losses in drainage water using DRAINMOD 5.0, 56 (2002) 153

Modelling crop water requirement
Simulating the fate of water in a soil–crop system of a semi-arid Mediterranean area with the WAVE 2.1 and the EURO-ACCESS-II models, 56 (2002) 113

Models
A growth-irrigation scheduling model for wastewater use in forest production, 56 (2002) 57

Monitoring system
Irrigation automation with heterogeneous vegetation: the case of the Padova botanical garden, 55 (2002) 183

Murcott orange
Short term effects of saline irrigation on evapotranspiration from lysimeter-grown citrus trees, 56 (2002) 131

Nigeria
Seasonal water use and water productivity of millet-based cropping systems in the Nigerian Sudan savanna near Kano, 56 (2002) 207

Nitrate
Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, 52 (2002) 93

Nitrate leaching
Impacts of fertigation via sprinkler irrigation on nitrate leaching and corn yield in an acid–sulphate soil in Thailand, 52 (2002) 197

Nitrate-nitrogen
Nitrogen loss through subsurface drainage effluent in coastal rice field from India, 52 (2002) 249

Nitrite-nitrogen
Nitrogen loss through subsurface drainage effluent in coastal rice field from India, 52 (2002) 249

Nitrogen
Optimal applied water and nitrogen for corn, 52 (2001) 73
Modelling nitrate losses in drainage water using DRAINMOD 5.0, 56 (2002) 153

Nitrogen fertilizer
Impacts of fertigation via sprinkler irrigation on nitrate leaching and corn yield in an acid–sulphate soil in Thailand, 52 (2002) 197

Normalized difference vegetation index
Use of spectral information for wetland evapotranspiration assessment, 55 (2002) 239

Oil
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. II. Crop response to salinity, 54 (2002) 81

Olive
Determining water consumption in olive orchards using the water balance approach, 55 (2002) 15

Olive trees
Rainfall concentration under olive trees, 55 (2002) 53

One-point method
Furrow infiltration estimation from time to a single advance point, 52 (2001) 17

On-farm water storage
Options for alternative irrigation water supplies in the Murray–Darling Basin, Australia: a case study of the Shepparton Irrigation Region, 56 (2002) 41

Onions
Seasonal water production functions and yield response factors for maize and onion in Perkerra, Kenya, 56 (2002) 229

Optimization
Seasonal furrow irrigation model with genetic algorithms (OPTIMEC), 52 (2001) 1

Organic soils
Phosphorus load reductions under best management practices for sugarcane cropping systems in the Everglades Agricultural Area, 56 (2002) 17

Outflow
Integrating agroforestry and perennial pastures to mitigate water logging and secondary salinity, 53 (2002) 259

Pakistan
Extracting relatively-fresh groundwater from aquifers underlain by salty groundwater, 52 (2002) 119

Pasture management
Lucerne pastures to sustain agricultural production in southwestern Australia, 53 (2002) 99

Percolation
Seasonal water balance of an Ozark hillslope, 55 (2002) 71

Performance indices
Performance evaluation of an irrigation command area using remote sensing: a case study of Mahi command, Gujarat, India, 56 (2002) 81

Permanent wilting point
Effect of crop sequence, soil sample location and depth on soil water holding capacity under center pivot irrigation, 55 (2002) 93

Phase pastures
Lucerne pastures to sustain agricultural production in southwestern Australia, 53 (2002) 99

Philippines
On-farm strategies for reducing water input in irrigated rice; case studies in the Philippines, 56 (2002) 93

Phosphorus load
Phosphorus load reductions under best management practices for sugarcane cropping systems in the Everglades Agricultural Area, 56 (2002) 17

Pinus radiata
Soil water relations, crop production and root pruning of a belt of trees, 53 (2002) 153

Plant water deficits
Evapotranspiration and soil water dynamics of peach trees under water deficits, 54 (2002) 107

Pollution
Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, 52 (2002) 93
Aluminum-contaminant transport by surface runoff and bypass flow from an acid sulphate soil, 56 (2002) 179

Preferential flow
Using microsprinkler irrigation to reduce leaching in a shrink/swell clay soil, 54 (2002) 159

Process-based
Parched–Thirst: development and validation of a process-based model of rainwater harvesting, 55 (2002) 121

Production
Determination of spatial water requirements at county and regional levels using crop models and GIS. An example for the State of Parana, Brazil, 52 (2002) 177

Production functions
Production of muskmelon (*Cucumis melo* L.) under controlled deficit irrigation in a semi-arid climate, 54 (2002) 93

Production performance
Effects of different ridge:furrow ratios and supplemental irrigation on crop production in ridge and furrow rainfall harvesting system with mulches, 54 (2002) 243

Productivity
Tree–crop interactions: manipulation of water use and root function, 53 (2002) 171

Pumped water salinity
Extracting relatively-fresh groundwater from aquifers underlain by salty groundwater, 52 (2002) 119

Pumping tests
Effect of pumping on temporal changes in groundwater quality, 56 (2002) 169

Rainfall
Regional cotton lint yield, ET_c and water value in Arizona and California, 54 (2002) 227

Rainfall harvesting
Effects of different ridge:furrow ratios and supplemental irrigation on crop production in ridge and furrow rainfall harvesting system with mulches, 54 (2002) 243

Rainfall redistribution
Rainfall concentration under olive trees, 55 (2002) 53

Rainwater harvesting
Parched–Thirst: development and validation of a process-based model of rainwater harvesting, 55 (2002) 121

Raised beds
Aluminum-contaminant transport by surface runoff and bypass flow from an acid sulphate soil, 56 (2002) 179

Ratios
Effects of different ridge:furrow ratios and supplemental irrigation on crop production in ridge and furrow rainfall harvesting system with mulches, 54 (2002) 243

Re-charge
An index for quantifying the trade-off between drainage and productivity in tree–crop mixtures, 53 (2002) 187
Integrating agroforestry and perennial pastures to mitigate water logging and secondary salinity, 53 (2002) 259

Regional scale
Estimating the spatial and temporal distribution of sowing dates for regional water management, 55 (2002) 37

Relative water content
Soil–plant water status and yield of sweet corn (*Zea mays* L. cv. Saccharata) as influenced by drip irrigation and planting methods, 55 (2002) 85

Rice
On-farm strategies for reducing water input in irrigated rice; case studies in the Philippines, 56 (2002) 93

Richards equation
Sugarcane transpiration with shallow water-table: sap flow measurements and modelling, 54 (2002) 17

Ridge and furrow
Effects of different ridge:furrow ratios and supplemental irrigation on crop production in ridge and furrow rainfall harvesting system with mulches, 54 (2002) 243

Risk
The impact of water price strategies on the allocation of irrigation water: the case of the Jordan Valley, 55 (2002) 171

Root architecture and function
Tree–crop interactions: manipulation of water use and root function, 53 (2002) 171

Root growth
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. I. Consumptive water use, 54 (2002) 67

Root water uptake
Sugarcane transpiration with shallow water-table: sap flow measurements and modelling, 54 (2002) 17

Runoff
Effect of tillage and water table control on evapotranspiration, surface runoff, tile drainage and soil water content under maize on a clay loam soil, 54 (2002) 173
Seasonal water balance of an Ozark hillslope, 55 (2002) 71

Safflower (*Carthamus tinctorius* L.)
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. I. Consumptive water use, 54 (2002) 67
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. II. Crop response to salinity, 54 (2002) 81

Saline irrigation
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. I. Consumptive water use, 54 (2002) 67

Saline water
Short term effects of saline irrigation on evapotranspiration from lysimeter-grown citrus trees, 56 (2002) 131

Salinisation
An overview of water logging and salinity in southwestern Australia as related to the 'Ucarro' experimental catchment, 53 (2002) 5

Salinity
Influence of different water quantities and qualities on lemon trees and soil salt distribution at the Jordan Valley, 52 (2001) 53
Lucerne pastures to sustain agricultural production in southwestern Australia, 53 (2002) 99
Economics of deep-rooted perennials in western Australia, 53 (2002) 117
Water use by contour-planted belts of trees comprised of four *Eucalyptus* species, 53 (2002) 133
An index for quantifying the trade-off between drainage and productivity in tree–crop mixtures, 53 (2002) 187
Sustainable cropping systems for high rainfall areas of southwestern Australia, 53 (2002) 201
Mechanisms and control of water logging and groundwater flow in the 'Ucarro' sub-catchment, 53 (2002) 227
Evaluation of irrigation schemes for sugarcane in Sindh, Pakistan, using SWAP93, 54 (2002) 37
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. I. Consumptive water use, 54 (2002) 67
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. II. Crop response to salinity, 54 (2002) 81
Simulation studies of long-term saline water use: model validation and evaluation of schedules, 54 (2002) 123

Salinization
Using the SIMGRO regional hydrological model to evaluate salinity control measures in an irrigation area, 56 (2002) 1

Salt accumulation
Restoration of saline land through revegetation, 53 (2002) 213

Salt uptake
Restoration of saline land through revegetation, 53 (2002) 213

Salt-water logging interactions
An overview of water logging and salinity in southwestern Australia as related to the 'Ucarro' experimental catchment, 53 (2002) 5

Sap flow
Water use by contour-planted belts of trees comprised of four *Eucalyptus* species, 53 (2002) 133
Tree–crop interactions: manipulation of water use and root function, 53 (2002) 171
Sugarcane transpiration with shallow water-table: sap flow measurements and modelling, 54 (2002) 17
Studies of canopy structure and water use of apple trees on three rootstocks, 55 (2002) 1
Determining water consumption in olive orchards using the water balance approach, 55 (2002) 15

Satellite remote sensing
An overview of water logging and salinity in southwestern Australia as related to the 'Ucarro' experimental catchment, 53 (2002) 5

Scheduling
Effect of method and scheduling of irrigation on water and nitrogen use efficiencies of Okra (*Abelmoschus esculentus*), 55 (2002) 159

Schinus areira
Soil water relations, crop production and root pruning of a belt of trees, 53 (2002) 153

SCS infiltration equation
Furrow infiltration estimation from time to a single advance point, 52 (2001) 17

Secondary salinity
Development of a rainfed lucerne-based farming system in the Mediterranean climatic region of southwestern Australia, 53 (2002) 111
The role of agroforestry and perennial pasture in mitigating water logging and secondary salinity: summary, 53 (2002) 271

Seed yield
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. I. Consumptive water use, 54 (2002) 67
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. II. Crop response to salinity, 54 (2002) 81

Self-service market
Adoption and adaptation of scientific irrigation scheduling: trends from Washington, USA as of 1998, 55 (2002) 105

Semiarid
Tree–crop interactions: manipulation of water use and root function, 53 (2002) 171

Shaded area
Influence of different water quantities and qualities on lemon trees and soil salt distribution at the Jordan Valley, 52 (2001) 53

Shedding
Effects of different irrigation methods on shedding and yield of cotton, 54 (2002) 1

Shrink/swell soil
Using microsprinkler irrigation to reduce leaching in a shrink/swell clay soil, 54 (2002) 159

Simulation
Application of unsteady flow hydraulic-model to a large and complex irrigation system, 54 (2002) 49
Simulation studies of long-term saline water use: model validation and evaluation of schedules, 54 (2002) 123

Simulation model
Parched–Thirst: development and validation of a process-based model of rainwater harvesting, 55 (2002) 121

Skimming well
Extracting relatively-fresh groundwater from aquifers underlain by salty groundwater, 52 (2001) 119

Soil moisture
Soil water relations, crop production and root pruning of a belt of trees, 53 (2002) 153

Soil profile water content
Effect of tillage and water table control on evapotranspiration, surface runoff, tile drainage and soil water content under maize on a clay loam soil, 54 (2002) 173

Soil salinity
Short term effects of saline irrigation on evapotranspiration from lysimeter-grown citrus trees, 56 (2002) 131

Soil sample location and depth
Effect of crop sequence, soil sample location and depth on soil water holding capacity under center pivot irrigation, 55 (2002) 93

Soil water
Evaluation of drainage and tillage effect on watertable depth and maize yield in wet inland valleys in southwestern Nigeria, 52 (2002) 215
Lucerne pastures to sustain agricultural production in southwestern Australia, 53 (2002) 99
Water use by contour-planted belts of trees comprised of four *Eucalyptus* species, 53 (2002) 133

Soil water content
Evapotranspiration and soil water dynamics of peach trees under water deficits, 54 (2002) 107

Soil water dynamics
Simulating the fate of water in a soil–crop system of a semi-arid Mediterranean area with the WAVE 2.1 and the EURO-ACCESS-II models, 56 (2002) 113

South Florida
Phosphorus load reductions under best management practices for sugarcane cropping systems in the Everglades Agricultural Area, 56 (2002) 17

South-western France
Estimating the spatial and temporal distribution of sowing dates for regional water management, 55 (2002) 37

Sowing dates
Estimating the spatial and temporal distribution of sowing dates for regional water management, 55 (2002) 37

Soybean
Determination of spatial water requirements at county and regional levels using crop models and GIS. An example for the State of Parana, Brazil, 52 (2002) 177

Spatial correlation
Rainfall concentration under olive trees, 55 (2002) 53

Spatio-temporal analysis
Application of GIS and crop growth models in estimating water productivity, 54 (2002) 205

Sprinkler
Effects of different irrigation methods on shedding and yield of cotton, 54 (2002) 1

Sprinkler irrigation
Impacts of fertigation via sprinkler irrigation on nitrate leaching and corn yield in an acid–sulphate soil in Thailand, 52 (2002) 197

Stemflow
Rainfall concentration under olive trees, 55 (2002) 53

Subirrigation
Modelling nitrate losses in drainage water using DRAINMOD 5.0, 56 (2002) 153

Subsurface drainage effluent
Nitrogen loss through subsurface drainage effluent in coastal rice field from India, 52 (2002) 249

Suction cups
Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, 52 (2002) 93

Sudan savanna
Seasonal water use and water productivity of millet-based cropping systems in the Nigerian Sudan savanna near Kano, 56 (2002) 207

Sugarcane
Sugarcane transpiration with shallow water-table: sap flow measurements and modelling, 54 (2002) 17
Phosphorus load reductions under best management practices for sugarcane cropping systems in the Everglades Agricultural Area, 56 (2002) 17

Summer crops
Estimating the spatial and temporal distribution of sowing dates for regional water management, 55 (2002) 37

Supplemental irrigation
Effects of different ridge:furrow ratios and supplemental irrigation on crop production in ridge and furrow rainfall harvesting system with mulches, 54 (2002) 243

Surface water
Using the SIMGRO regional hydrological model to evaluate salinity control measures in an irrigation area, 56 (2002) 1

Sustainability
Development of a rainfed lucerne-based farming system in the Mediterranean climatic region of southwestern Australia, 53 (2002) 111
Sustainable cropping systems for high rainfall areas of southwestern Australia, 53 (2002) 201

Sweet corn
Soil–plant water status and yield of sweet corn (*Zea mays* L. cv. Saccharata) as influenced by drip irrigation and planting methods, 55 (2002) 85

Systems analysis
Determination of spatial water requirements at county and regional levels using crop models

and GIS. An example for the State of Parana, Brazil, 52 (2001) 177

Tall fescue
Seasonal water balance of an Ozark hillslope, 55 (2002) 71

Tanzania
Parched–Thirst: development and validation of a process-based model of rainwater harvesting, 55 (2002) 121

Technology transfer
Adoption and adaptation of scientific irrigation scheduling: trends from Washington, USA as of 1998, 55 (2002) 105

Temporal distribution
Estimating the spatial and temporal distribution of sowing dates for regional water management, 55 (2002) 37

Tile drainage
Effect of tillage and water table control on evapotranspiration, surface runoff, tile drainage and soil water content under maize on a clay loam soil, 54 (2002) 173

Tillage
Effect of tillage and water table control on evapotranspiration, surface runoff, tile drainage and soil water content under maize on a clay loam soil, 54 (2002) 173

Topog_Dynamic
Mechanisms and control of water logging and groundwater flow in the 'Ucarro' sub-catchment, 53 (2002) 227

Transpiration
Water use by contour-planted belts of trees comprised of four *Eucalyptus* species, 53 (2002) 133
Sugarcane transpiration with shallow water-table: sap flow measurements and modelling, 54 (2002) 17

Tree belts
An index for quantifying the trade-off between drainage and productivity in tree–crop mixtures, 53 (2002) 187
The role of agroforestry and perennial pasture in mitigating water logging and secondary salinity: summary, 53 (2002) 271

Tree growth
A growth-irrigation scheduling model for wastewater use in forest production, 56 (2002) 57

Trickle
LEPA and trickle irrigation of cotton in the Southeast Anatolia Project (GAP) area in Turkey, 54 (2002) 189

Tubewell drainage
Effect of pumping on temporal changes in groundwater quality, 56 (2002) 169

Unconfined aquifer
Extracting relatively-fresh groundwater from aquifers underlain by salty groundwater, 52 (2002) 119

Upconing
Extracting relatively-fresh groundwater from aquifers underlain by salty groundwater, 52 (2002) 119

Validation
Parched–Thirst: development and validation of a process-based model of rainwater harvesting, 55 (2002) 121

Vegetation and moisture coefficient
Use of spectral information for wetland evapotranspiration assessment, 55 (2002) 239

Volcanic soil
Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, 52 (2001) 93

Water
Optimal applied water and nitrogen for corn, 52 (2001) 73
Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot, 52 (2002) 93

Water allocation
Economic 'analysis of water allocation policies regarding Nile River water in Egypt, 52 (2002) 155

Water balance
Integrating agroforestry and perennial pastures to mitigate water logging and secondary salinity, 53 (2002) 259

Determining water consumption in olive orchards using the water balance approach, 55 (2002) 15
Seasonal water balance of an Ozark hillslope, 55 (2002) 71

Water demand
Estimating the spatial and temporal distribution of sowing dates for regional water management, 55 (2002) 37
The impact of water price strategies on the allocation of irrigation water: the case of the Jordan Valley, 55 (2002) 171

Water logging
An overview of water logging and salinity in southwestern Australia as related to the 'Ucarro' experimental catchment, 53 (2002) 5
Measuring and monitoring the effects of agroforestry and drainage in the 'Ucarro' sub-catchment, 53 (2002) 39
Predicting and controlling water logging and groundwater flow in sloping duplex soils in western Australia, 53 (2002) 57
Water use by contour-planted belts of trees comprised of four *Eucalyptus* species, 53 (2002) 133
Restoration of saline land through revegetation, 53 (2002) 213
Mechanisms and control of water logging and groundwater flow in the 'Ucarro' sub-catchment, 53 (2002) 227
The role of agroforestry and perennial pasture in mitigating water logging and secondary salinity: summary, 53 (2002) 271

Water management
An economic perspective on the potential gains from improvements in irrigation water management, 52 (2002) 233

Water policy
Economic analysis of water allocation policies regarding Nile River water in Egypt, 52 (2002) 155

Water production functions
Seasonal water production functions and yield response factors for maize and onion in Perkerra, Kenya, 56 (2002) 229

Water productivity
Application of GIS and crop growth models in estimating water productivity, 54 (2002) 205
On-farm strategies for reducing water input in irrigated rice; case studies in the Philippines, 56 (2002) 93
Seasonal water use and water productivity of millet-based cropping systems in the Nigerian Sudan savanna near Kano, 56 (2002) 207

Water quality and nutrient runoff
Options for alternative irrigation water supplies in the Murray–Darling Basin, Australia: a case study of the Shepparton Irrigation Region, 56 (2002) 41

Water requirement
Influence of different water quantities and qualities on lemon trees and soil salt distribution at the Jordan Valley, 52 (2001) 53
Soil–plant water status and yield of sweet corn (*Zea mays* L. cv. Saccharata) as influenced by drip irrigation and planting methods, 55 (2002) 85

Water requirements
Evaluation of the surface renewal method to estimate wheat evapotranspiration, 55 (2002) 141

Water saving
On-farm strategies for reducing water input in irrigated rice; case studies in the Philippines, 56 (2002) 93

Water stress
Evapotranspiration and soil water dynamics of peach trees under water deficits, 54 (2002) 107
Cotton yield and applied water relationships under drip irrigation, 55 (2002) 217
Interrelations of yield, evapotranspiration, and water use efficiency from marginal analysis of water production functions, 56 (2002) 143

Water supply options
Options for alternative irrigation water supplies in the Murray–Darling Basin, Australia: a case study of the Shepparton Irrigation Region, 56 (2002) 41

Water table management
Modelling nitrate losses in drainage water using DRAINMOD 5.0, 56 (2002) 153

Water uptake
Analysis of several discharge rate–spacing–duration combinations in drip irrigation system, 52 (2001) 33

Water use and root growth by annual and perennial pastures and subsequent crops in a phase rotation, 53 (2002) 83

Water use
Determination of spatial water requirements at county and regional levels using crop models and GIS. An example for the State of Parana, Brazil, 52 (2002) 177
Tree–crop interactions: manipulation of water use and root function, 53 (2002) 171
Response of safflower (*Carthamus tinctorius* L.) to saline soils and irrigation. I. Consumptive water use, 54 (2002) 67
Seasonal water use and water productivity of millet-based cropping systems in the Nigerian Sudan savanna near Kano, 56 (2002) 207

Water use efficiency
Regional cotton lint yield, ET_c and water value in Arizona and California, 54 (2002) 227
Soil–plant water status and yield of sweet corn (*Zea mays* L. cv. Saccharata) as influenced by drip irrigation and planting methods, 55 (2002) 85
Effects of limited irrigation on yield and water use efficiency of winter wheat in the Loess Plateau of China, 55 (2002) 203

Waterlogging
Sugarcane transpiration with shallow water-table: sap flow measurements and modelling, 54 (2002) 17

Water-table
Sugarcane transpiration with shallow water-table: sap flow measurements and modelling, 54 (2002) 17

Western Australia
Predicting and controlling water logging and groundwater flow in sloping duplex soils in western Australia, 53 (2002) 57
Economics of deep-rooted perennials in western Australia, 53 (2002) 117

Wheat
Water use and root growth by annual and perennial pastures and subsequent crops in a phase rotation, 53 (2002) 83
Soil water relations, crop production and root pruning of a belt of trees, 53 (2002) 153
Evaluation of the surface renewal method to estimate wheat evapotranspiration, 55 (2002) 141

Whole farm plan
A case study of farm-based solutions to water logging and secondary salinity in southwestern Australia, 53 (2002) 31

Wind erosion
A case study of farm-based solutions to water logging and secondary salinity in southwestern Australia, 53 (2002) 31

Winter wheat (*Triticum aestivum* L.)
Effects of limited irrigation on yield and water use efficiency of winter wheat in the Loess Plateau of China, 55 (2002) 203

Woody perennials
Economics of deep-rooted perennials in western Australia, 53 (2002) 117

Yield response factors
Seasonal water production functions and yield response factors for maize and onion in Perkerra, Kenya, 56 (2002) 229

Yield–water relations
Interrelations of yield, evapotranspiration, and water use efficiency from marginal analysis of water production functions, 56 (2002) 143